

Europäisches Patentamt  
European Patent Office  
Office européen des brevets



(11) **EP 1 161 031 A3**

(12) **EUROPEAN PATENT APPLICATION**

(88) Date of publication A3:  
04.06.2003 Bulletin 2003/23

(51) Int Cl.7: **H04L 12/28, H04L 29/06,  
H04Q 7/38**

(43) Date of publication A2:  
05.12.2001 Bulletin 2001/49

(21) Application number: **01110754.7**

(22) Date of filing: **03.05.2001**

(84) Designated Contracting States:  
**AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU  
MC NL PT SE TR**  
Designated Extension States:  
**AL LT LV MK RO SI**

(72) Inventor: **Kimura, Shinya**  
**Yokohama-shi, Kanagawa 222-0032 (JP)**

(74) Representative: **Müller - Hoffmann & Partner**  
**Patentanwälte,**  
**Innere Wiener Strasse 17**  
**81667 München (DE)**

(30) Priority: **01.06.2000 JP 2000164519**

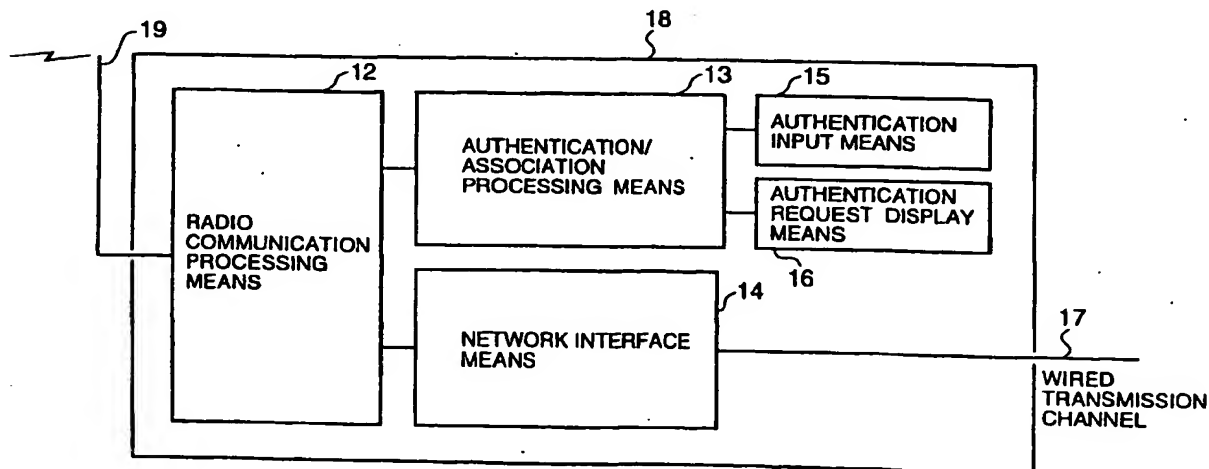
(71) Applicant: **SHARP KABUSHIKI KAISHA**  
**Osaka 545-8522 (JP)**

(54) **Access point device and authentication method thereof**

(57) An access point device (18) and its authentication method are provided which can dramatically improve a wireless LAN system in security level. The access point device includes: authentication request display means (16) for notifying a network administrator administering the LAN of the presence of an authentication-requesting mobile station so as to gain the final au-

thorization of an authentication procedure when a mobile station in the area perform the authentication procedure before the initiation of an association procedure; and authentication input means (15) from which the network administrator notified inputs an authentication-authorizing or -rejecting instruction with respect to the authentication-requesting mobile station.

**FIG.1**



EP 1 161 031 A3



European Patent  
Office

# EUROPEAN SEARCH REPORT

Application Number  
EP 01 11 0754

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IntCl.7)
E	EP 1 081 895 A (INTEL CORP) 7 March 2001 (2001-03-07) * abstract * * column 4, line 26 - column 6, line 46 * ---	1	H04L12/28 H04L29/06 H04Q7/38
X	PRASAD A R ET AL: "SECURITY ARCHITECTURE FOR WIRELESS LANS: CORPORATE & PUBLIC ENVIRONMENT" VTC 2000-SPRING. 2000 IEEE 51ST. VEHICULAR TECHNOLOGY CONFERENCE PROCEEDINGS. TOKYO, JAPAN, MAY 15-18, 2000, IEEE VEHICULAR TECHNOLOGY CONFERENCE, NEW YORK, NY: IEEE, US, vol. 1 OF 3. CONF. 51, 15 May 2000 (2000-05-15), pages 283-287, XP000970625 ISBN: 0-7803-5719-1	1	
Y	* page 283, left-hand column, line 25-49 * * page 283, right-hand column, line 45 - page 284, left-hand column, line 6 * * page 284, right-hand column, line 1-30 * * page 285, left-hand column, line 22-36 * * page 285, right-hand column, line 19-25 * * page 286, right-hand column, line 1-32 * * page 287, left-hand column, line 1-16 * ---	2-5	TECHNICAL FIELDS SEARCHED (IntCl.7)  H04L H04Q
Y	US 5 940 755 A (SCOTT CHARLES RONALD) 17 August 1999 (1999-08-17) * figure 16 * -----	2-5	
The present search report has been drawn up for all claims			
Place of search <b>MUNICH</b>		Date of completion of the search <b>24 March 2003</b>	Examiner <b>Isopescu, C</b>
<p><b>CATEGORY OF CITED DOCUMENTS</b></p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons &amp; : member of the same patent family, corresponding document</p>			

EPO FORM 1503 03.02 [Po4C01]

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 01 11 0754

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

24-03-2003

Patent document cited in search report		Publication date	Patent family member(s)		Publication date
EP 1081895	A	07-03-2001	EP	1081895 A1	07-03-2001
-----					
US 5940755	A	17-08-1999	AU	5904198 A	31-07-1998
			EP	0956647 A2	17-11-1999
			JP	2001508613 T	26-06-2001
			WO	9830037 A2	09-07-1998
-----					